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507712-C, C2,
JA-005455, S31,
Sumitomo Chemical Co. Ltd.
akuum.
C0d4-49/36 (26-07-71)...
HERBICIDAL THIODYANTOIN DERIVS....

SUMO.21-01-705 C7-D9, C12-P6.

DT-2102605-Q

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(II) can be combined with fungicides, insecticides, nematocides, herbicides and fertilisers.

ADVANTAGE

Very low toxicity to warm-blooded animals and fish.

PREFERRED

(I) where (a) X is Cl in 3-position, n = 1, and Y is $>C(CH_3)_2$; (b) X is Cl in 3- and 5-positions, n = 2, Y is $>C(CH_3)_2$; (c) X is Cl in 3-position, n = 1, Y is $>CH-CH(CH_3)_2$; (d) X is Cl in 3- and 5-positions, n = 2, Y is $>CH_2CH_3$.

PREPARATION

(a) (I) where Y is $>CR_1R_2$ are pref. prep'd. by reacting a phenylisothiocyanate (II).

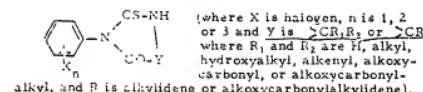
(II)

(b) (I) where Y is $>CR$ are pref. prep'd. by treating a hydantoin deriv. (IV).

Contd 507712

NEW

Thiodyantoin derivs. (I)



USES

Herbicides and as active ingredients in herbicide compositions, for pre-emergent use against grassy broad-leaved weeds. Rice seedlings are not affected. (I) can also be used to protect crops, beans, other vegetables, fruit orchards, lawns, pastures and fallow ground against *Portulaca oleracea*, *Polygonum longisetum*, *Stellaria media*, *Amaranthus retroflexus*, *Euphorbia supina* or *Cyperus microtis*.

Prüfungsantrag gemäß § 28b PatG ist gestellt

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